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ABSTRACT

A two-sided surface grinding apparatus capable of eliminating undulations of concentric circles produced in the work surfaces by grinding, thereby further improving the degree of flatness of the work surfaces after grinding includes a pair of support pads which hold work outwardly of grinding whetstones and noncontactly support the work by the pressure of fluid are formed with notches corresponding to the grinding whetstones and extending from the outer edge to the center, and their noncontact support surfaces are provided with a plurality of pockets having fluid supply holes, and a mesh section forming banks around the peripheries of these pockets, the mesh section being composed of a peripheral edge disposed along the outer periphery of the noncontact support surface, and inside veins disposed so as to divide the inside of the peripheral edges and connected to the inside-and-outside connecting sections. The portion of the peripheral edge which extends along the notch is not provided with any inside-and-outside connecting section in the region excluding at least the vicinity of a central position of the work.